

IN THE CLAIMS

1. (Currently Amended) A method comprising: Method of
cooling an at most partially solidified molten metal during fractional crystallisation,
wherein metal crystals formed have a purer composition than that of the molten metal, wherein
characterised in that salt in solid form is used to cool the at most partially solidified molten
metal.
2. (Original) Method according to claim 1, wherein [[a]] the salt is chosen that melts
at least partially during the cooling of the at most partially solidified molten metal.
3. (Currently Amended) Method according to any one of the preceding claims claim
1, wherein at least some of the salt is removed once [[it]] the salt is molten.
4. (Currently Amended) Method according to claim 3, wherein the removed salt is
cooled and solidified, preferably for re-use.
5. (Currently Amended) Method according to any one of the preceding claims claim
1, wherein the solid salt is added from above and/or to below and/or into the at most partially
solidified molten metal.
6. (Currently Amended) Method according to any one of the preceding claims claim
1, wherein the at most partially solidified molten metal is stirred.
7. (Currently Amended) Method according to claim 6, wherein the at most partially
solidified molten metal is stirred by a stirrer, wherein the solid salt is added to a vortex formed
on the surface of the at most partially solidified molten metal by the motion of the stirrer.

8. (Original) Method according to claim 6, wherein the at most partially solidified molten metal is stirred by a means for stirring and solid salt is added into the at most partially solidified molten metal through the means for stirring.

9. (Currently Amended) Method according to ~~any one of the preceding claims~~ claim 6, wherein the solid salt is chosen to have a lower density once molten than that of the at most partially solidified molten metal.

10. (Currently Amended) Method according to ~~any one of the preceding claims~~ claim 1, wherein the solid salt comprises alkaline earth metal halides or alkali metal halides or mixtures thereof.

11. (Currently Amended) Method according to ~~any one of the preceding claims~~ claim 1, wherein the metal is aluminium alloy.

12. (New) Method according to claim 3, wherein the removed salt is cooled and solidified and re-used for cooling at most partially solidified molten metal.